

Styrolution PS 1290/1291

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 1290/1291 is a General Purpose Polystyrene product. It can be processed by extrusion or thermoforming and is available in Latin America or North America. Applications of Styrolution PS 1290/1291 include containers, film, food contact applications, packaging and sheet.

Characteristics include:

- Flame Rated
- Low to No Odor/Taste
- Clarity
- High Stiffness

General Information			
UL YellowCard	E57787-246269		
Features	General Purpose		
	Good Melt Strength		
	High Clarity		
	High Stiffness		
	Low Odor Transfer		
	Low Taste Transfer		
Uses	Bi-axially Oriented Film		
	Food Containers		
	Food Packaging		
	Food Service Applications		
	Sheet		
UL File Number	E57787		
Forms	Pellets		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Apparent Density			
-- ¹	0.59 to 0.64	g/cm ³	
-- ²	0.62 to 0.67	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.6	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	78		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	52.4	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	107	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	95.0	°C	
Vicat Softening Temperature	109	°C	ASTM D1525 ³
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.18 mm)	20	kV/mm	ASTM D149
Dielectric Constant (1.00 mm, 1 MHz)	2.50		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index ⁴	1.590		ASTM D542
Transmittance (550 nm)	88.0 to 90.0	%	ASTM D1003
Optical Density - 400-700 nm avg.	0.0460		
Extrusion	Nominal Value	Unit	
Melt Temperature	182 to 277	°C	
NOTE			
1.	without external lubricant		
2.	with external lubricant		
3.	Rate B (120°C/h), Loading 1 (10 N)		
4.	Sodium D line		

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